containing couple bonding part Fine pitch ball grid array package including beam lead with SAMSUNG ELECTRONICS COLTD C2002-042181 1999.12.08 1999-055695(+1999KR-055695) *(2001.07.02)* H01L 23/02

Addnl. Data: CHOIGW, SONGYH

NOVELTY

lead. badness such as electrical disconnection due to a damage of a beam lead with containing couple bonding part id provided to prevent An FBGA (Fine pitch Ball Grid Array) package including beam

DETAILED DESCRIPTION

solder ball. Bonding pads(112) are formed on the active surface of of a semiconductor chip(110), a carbon polymer(120), a tape for semiconductor chip(110), and the carbon polymer(120) is doped. The FBGA(150), and an external connection terminal(160) such as a open aperture(134) is made in the polyimide film(130) for loading a tape(150) consists of a polyimide film(130) and beam leads(140). An FBGA(150) tape is attached on the carbon polymer(120). The FBGA An FBGA(Fine pitch Ball Grid Array) package(200) is composed

A(5-J1B, 12-E7C) L(4-C17A, 4-C20A, 4-F2)

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connected with the edges of bonding lead(147). The couple bo two bonding leads. One bonding lead(147) is directly bonded v expose a couple bonding part(142). The couple bonding part(1 solder ball (160), and a window (132) is built in the beam leads bonding pads (112), and the other additional bonding lead (148) part is molded using an encapsulant(170) after bonding the bor lead(147) on the bonding pads(112).

